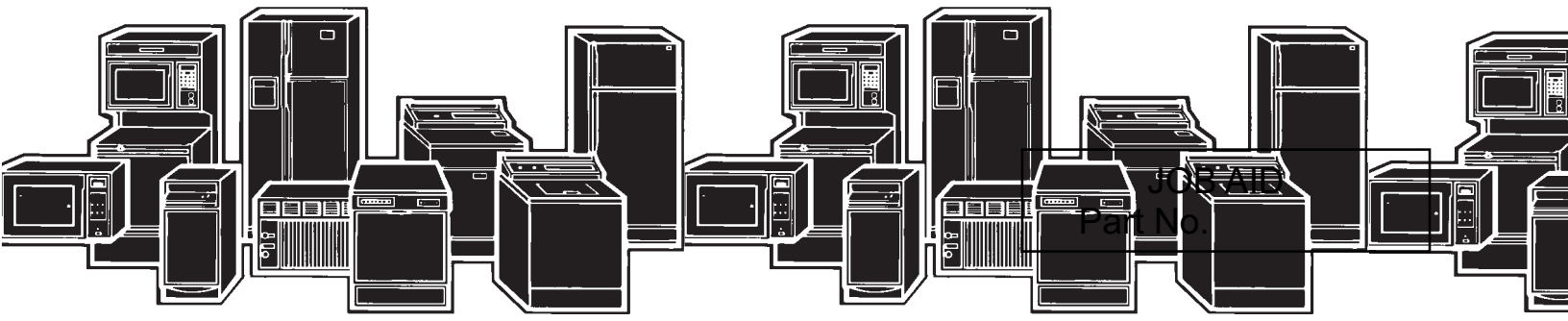
Whirlpool CORPORATION

CONSUMER SERVICES TECHNICAL EDUCATION GROUP PRESENTS

KR-29

STANDARD CLEAN FREESTANDING GAS RANGE

JOB AID
Part No. 8177945



FORWARD

This Job Aid, “Standard Clean Freestanding Gas Range,” (Part No. 8177945), provides the technician with information on the installation and service of the Standard Clean Freestanding Gas Range. It is to be used as a training Job Aid and Service Manual. For specific information on the model being serviced, refer to the “Use and Care Guide,” or “Tech Sheet” provided with the range.

The Wiring Diagrams used in this Job Aid are typical and should be used for training purposes only. Always use the Wiring Diagram supplied with the product when servicing the unit.

GOALS AND OBJECTIVES

The goal of this Job Aid is to provide detailed information that will enable the service technician to properly diagnose malfunctions and repair the Standard Clean Freestanding Gas Range.

The objectives of this Job Aid are to:

- Understand and follow proper safety precautions.
- Successfully troubleshoot and diagnose malfunctions.
- Successfully perform necessary repairs.
- Successfully return the Standard Clean Freestanding Gas Range to proper operational status.

WHIRLPOOL CORPORATION assumes no responsibility for any repair made on our products by anyone other than Authorized Factory Service Technicians.

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WHIRLPOOL MODEL & SERIAL NUMBER DESIGNATIONS

MODEL NUMBER

MODEL NUMBER	S	F	3	2	5	L	E	J	W
INTERNATIONAL SALES IND. OR MARKETING CHANNEL IF PRESENT									
PRODUCT GROUP:									
R = ELECTRIC RANGES									
S = GAS RANGES									
G = WHIRLPOOL GOLD RANGE									
PRODUCT IDENTIFICATION:									
A = ACCESSORY K = KITS									
B = BUILT-IN M = MV COMBO									
C = COOKTOP S = SET-IN									
E = EYE-LEVEL W = SLIDE-IN GAS									
F = FREESTANDING Y = SLIDE-IN ELECTRIC									
H = HOODS									
MODEL SIZE:									
3 = 30″ SLIDE-IN									
4 = 40″ SLIDE-IN									
5 = 36″ SLIDE-IN									
6 = 30″ SET-IN RANGES									
OVEN TYPES:									
0 THRU 3 - STANDARD PORCELAIN									
4 THRU 9 = PYROLYTIC SELF-CLEAN									
FEATURE / VARIATIONS:									
ELECTRIC									
0, 1, 2, 5, 7 = COIL ELEMENTS									
4 = STANDARD PATTERN CERAMIC									
6, 8, 9 = DELUXE PATTERN CERAMIC									
GAS									
0, 1, 2, 3, 4, 6 = OPEN BURNER									
5 & 7 = SEALED BURNER									
DOOR TYPE:									
B = SOLID BLACK GLASS									
L = LARGE WINDOW									
O = METAL OVEN DOOR									
P = STANDARD WINDOW GLASS									
FEATURE CODE:									
E = ELECTRONIC IGNITION (GAS ONLY)									
S = STANDING IGNITION (GAS ONLY)									
C = COLOR COORDINATED GLASS (BEFORE 1998)									
X = NOT DEFINED									
YEAR OF INTRODUCTION:									
H = 1999 J = 2000									
COLOR CODE:									
B = BLACK W = WHITE									
N = ALMOND Z = ALMOND ON ALMOND									
Q = WHITE ON WHITE T = BISCUIT									

SERIAL NUMBER

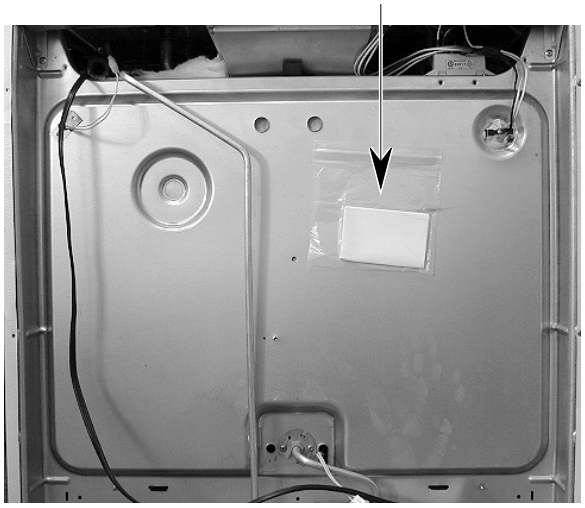
SERIAL NUMBER	V	E	K	19	10001
RESPONSIBLE ENGINEERING GROUP					
VITROMATIC					
MANUFACTURING SITE					
E = CELAYA, MEXICO					
YEAR OF PRODUCTION:					
K = 2000, L = 2001, M = 2002					
WEEK OF PRODUCTION:					
19th WEEK					
PRODUCT SEQUENCE NUMBER					

MODEL & SERIAL NUMBER LABEL AND TECH SHEET LOCATIONS

The Model/Serial Number label and Tech Sheet locations are shown below.

Model & Serial Number Location
(behind broiler drawer)

Tech Sheet Location
(on rear of unit)



IMPORTANT SAFETY INFORMATION

Your safety and the safety of others is very important.

Important safety messages have been provided in this Job Aid. Always read and obey all safety messages.

This is the safety alert symbol.

This symbol alerts you to hazards that can kill or hurt you and others.

All safety messages will be preceded by the safety alert symbol and the word "**WARNING**."

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

IMPORTANT

Electrostatic Discharge (ESD)
Sensitive Electronics

ESD problems are present everywhere. ESD may damage or weaken the electronic control assembly. The new control assembly may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

- Use an anti-static wrist strap. Connect the wrist strap to the green ground connection point, or to an unpainted metal surface in the appliance.

- OR -

  Touch your finger repeatedly to a green ground connection point, or to an unpainted metal surface in the appliance.
- Before removing the part from its package, touch the anti-static bag to a green ground connection point, or to an unpainted metal surface in the appliance.
- Avoid touching electronic parts, or terminal contacts. Handle the electronic control assembly by the edges only.
- When repackaging the failed electronic control assembly in an anti-static bag, observe the previous instructions.

SPECIFICATIONS

WHIRLPOOL

Model	SF310PEJ W/N	SF310PEJ Q/T	SF315PEJ W	SF315PEJ Q/T	SF325LEJ W	SF325LEJ Q/T
PRODUCT DIMENSION						
Height -Overall	46.25	46.25	46.25	46.25	46.25	46.25
Depth	24	24	24	24	24	24
BACKGUARD FEATURES						
Decoration panel	Black	White/Biscuit	Black	White/Biscuit	Black	White/Biscuit
Removable backguard	No	No	No	No	No	No
Clock /Timer	TOD	TOD	In Control	In Control	In Control	In Control
Clock Overlay Color	Black	White/Biscuit	Black	White/Biscuit	Black	White/Biscuit
COOKTOP SPECIFICATIONS						
Cooktop Type	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
Cooktop Finish	Porcelain	Porcelain	Porcelain	Porcelain	Porcelain	Porcelain
Grates Color	Black	Gray	Black	Gray	Black	Gray
Center Grate	No	No	No	No	Yes	Yes
BURNERS						
Burner Type	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed
Burner Skirt	No	No	No	No	No	No
Burner Right Front	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Left Front	9,500 BTU	9,500 BTU	11,500 BTU	11,500 BTU	11,500 BTU	11,500 BTU
Burner Right Rear	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Left Rear	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Head	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Burner Caps - match grate color	Stamped	Stamped	Cast	Cast	Cast	Cast
Ignition	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Gas Valve Degree	270 deg	270 deg	270 deg	270 deg	270 deg	270 deg
LP Convertable	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud
MAIN CHASSIS FEATURES						
Leveling legs-Plastic	4	4	4	4	4	4
Gas Hookup location	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side
OVEN SPECIFICATIONS						
Ignition	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Oven Control	Mech Therm	Mech Therm	EZ150	EZ150	EZ151	EZ151
Capacity cubic ft	4.5 cf	4.5 cf	4.5 cf	4.5 cf	4.5 cf	4.5 cf
Oven Cavity Finish	Porcelain	Porcelain	Porcelain	Porcelain	Porcelain	Porcelain
Light	Yes	Yes	Yes	Yes	Yes	Yes
Manual Oven light switch	Backguard--Top Right	Backguard--Top Right	Backguard--Top Right	Backguard--Top Right	Backguard--Top Right	Backguard--Top Right
Auto Oven light switch	No	No	Yes	Yes	Yes	Yes
Removable Door	Yes	Yes	Yes	Yes	Yes	Yes
Oven Racks	Two straight	Two straight	Two straight	Two straight	Two straight	Two straight
No. Rack Guides	5	5	5	5	5	5
OVEN DOOR FEATURES						
Oven Door Type	Black Glass	White/Biscuit Glass	Black Glass	White/Biscuit Glass	Black Porc	White/Biscuit Porc
Window/size	Standard	Standard	Standard	Standard	Large	Large
Outer Door glass color	Black Glass	White/Biscuit Glass	Black Glass	White/Biscuit Glass	Black Glass	White/Biscuit Glass
Handle Color	Black	White/Biscuit	Black	White/Biscuit	Black	White/Biscuit
BROILER FEATURES						
Broiler	Roll Out	Roll Out	Roll out	Roll out	Roll out	Roll out
Broiler/Bake output	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU
Broiler Pan size	Std.	Std.	Std.	Std.	Std.	Std.
Drawer Handle - match drawer front color	Metal Bar	Metal Bar	Metal Bar	Metal Bar	Metal Bar	Metal Bar
ACCESSORIES						
Comal / Griddle	N/A	N/A	N/A	N/A	Card Offer	Card Offer
Gas Shut off	No	No	No	No	No	No
OTHER SPECIFICATIONS						
AGA Approval	Yes	Yes	Yes	Yes	Yes	Yes
Use & Care Guide	English/Spanish	English/Spanish	French/English/Spanish	French/English/Spanish	French/English/Spanish	French/English/Spanish
Tech Sheet	No	No	No	No	Yes	Yes
Wiring Diagram Label	Yes	Yes	Yes	Yes	No	No
Installation Instruction	Yes	Yes	Yes	Yes	Yes	Yes
Anti-tip Device Approved	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket
Anti-tip Shipped w/units	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket
LP/Natural conversion kit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit

WHIRLPOOL

MODEL	SF3020SJ W	SF3020EJ W/N	SF302BSJ W	SF303PEJ W	SF303PEJ Q/T
PRODUCT DIMENSION					
Height -Overall	46.25	46.25	46.25	46.25	46.25
BACKGUARD FEATURES					
Removable backguard	No	No	No	No	No
Clock /Timer	No	No	No	No	No
COOKTOP SPECIFICATIONS					
Cooktop Type	Sealed	Sealed	Sealed	Sealed	Sealed
Cooktop Finish	Porcelain	Porcelain	Porcelain	Porcelain	Porcelain
Grates Type	US - wire	US - wire	US - wire	US - wire	US - wire
BURNERS					
Burner Type	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed
Burner Skirt	Yes	No	Yes	No	No
Burner Right Front	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Left Front	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Right Rear	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Left Rear	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Ignition	Pilot	Electronic	Pilot	Electronic	Electronic
Gas Valve Degree	270 deg	270 deg	270 deg	270 deg	270 deg
LP Convertable	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud
MAIN CHASSIS FEATURES					
Leveling legs-Plastic	4	4	4	4	4
Gas Hookup Location	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side
OVEN SPECIFICATIONS					
Ignition	Pilot	Electronic	Pilot	Electronic	Electronic
Oven Control	Hydraulic	Mech Therm	Hydraulic	Mech Therm	Mech Therm
Capacity cubic ft	4.5 cf	4.5 cf	4.5 cf	4.5 cf	4.5 cf
Light	No	No	No	No	No
Removable Door	Yes	Yes	Yes	Yes	Yes
Oven Racks	Two straight	Two straight	Two straight	Two straight	Two straight
No. Rack Guides	5	5	5	5	5
OVEN DOOR FEATURES					
Oven Door Type	Porcelain Steel White	Porcelain Steel White/Alm	Black glass	Black glass	White/Biscuit glass
Window/size	No	No	No	Standard	Standard
Handle Color	Black	Black	Black	Black	White/Biscuit
BROILER FEATURES					
Broiler	Drop Down	Drop Down	Drop Down	Drop Down	Drop Down
Broiler/Bake output	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU
Drawer Handle - match drawer front color	Metal Bar	Metal Bar	Metal Bar	Metal Bar	Metal Bar
ACCESSORIES					
Gas Shut off	No	No	No	No	No
OTHER SPECIFICATIONS					
AGA Approval	Yes	Yes	Yes	Yes	Yes
Use & Care Guide	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish
Tech Sheet	No	No	No	No	No
Wiring Diagram Label	Yes	Yes	Yes	Yes	Yes
Installation Instruction	Yes	Yes	Yes	Yes	Yes
Anti-tip Device Approved	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket
Anti-tip Shipped w/units	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket
LP/Natural conversion kit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit

ROPER

MODEL	FGP300J W/N	FGP305J W/N	FGP325J W/N	FGP337J W/N	FGP337J Q
PRODUCT DIMENSION					
Height -Overall	42.25	42.25	44.25	46.25	46.25
Width	29.875	29.875	29.875	29.875	29.875
BACKGUARD FEATURES					
Removable backguard	No	No	No	No	No
Clock /Timer	No	No	No	TOD	TOD
Clock Overlay Color	N/A	N/A	N/A	Black	White
COOKTOP SPECIFICATIONS					
Cooktop Type	Sealed	Sealed	Sealed	Sealed	Sealed
BURNERS					
Burners Type	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed
Burner Skirt	Yes	No	No	No	No
Burner Right Front	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Left Front	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Right Rear	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Burner Left Rear	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU	9,500 BTU
Ignition	Pilot	Electronic	Electronic	Electronic	Electronic
Gas Valve Degree	270 deg	270 deg	270 deg	270 deg	270 deg
LP Convertable	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud	Yes-Spud
MAIN CHASSIS FEATURES					
Leveling legs-Plastic	4	4	4	4	4
Gas Hookup Location	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side	Under Cooktop R/Side
OVEN SPECIFICATIONS					
Ignition	Pilot	Electronic	Electronic	Electronic	Electronic
Oven Control	Hydraulic	Mech Therm	Mech Therm	Mech Therm	Mech Therm
Light	No	No	No	Yes	Yes
Manual Oven light switch	No	No	No	Backguard--Top Right	Backguard--Top Right
Oven Racks	Two straight	Two straight	Two straight	Two straight	Two straight
No. Rack Guides	5	5	5	5	5
OVEN DOOR FEATURES					
Oven Door Type	Porc. Steel White/Alm	Porc. Steel White/Alm	Black glass	Black glass	White Glass
Window/size	No	No	No	Standard	Standard
Handle	US	US	US	US	US
Handle Color	Black	Black	Black	Black	White
BROILER FEATURES					
Broiler	Drop Down	Drop Down	Drop Down	Drop Down	Drop Down
Broiler/Bake output	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU	16,500 BTU
Drawer Handle - match drawer front color	Mexican Oval	Mexican Oval	Mexican Oval	Mexican Oval	Mexican Oval
ACCESSORIES					
Gas Shut off	No	No	No	No	No
OTHER SPECIFICATIONS					
AGA Approval	Yes	Yes	Yes	Yes	Yes
Use & Care Guide	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish
Wiring Diagram Label	Yes	Yes	Yes	Yes	Yes
Installation Instruction	Yes	Yes	Yes	Yes	Yes
Anti-tip Device Approved	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket	Floor/Wll Bracket
Anti-tip Shipped w/units	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket	Floor Bracket
LP/Natural conversion kit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit	Shipped w/unit

CANADIAN

Model	YSF315PEJ W	YSF315PEJ Q
PRODUCT DIMENSION		
Height -Overall	46.25	46.25
Depth	24	24
BACKGUARD FEATURES		
Removable backguard	No	No
Clock /Timer	In Control	In Control
Clock Overlay Color	Black	White
COOKTOP SPECIFICATIONS		
Cooktop Type	Sealed	Sealed
Grates Type	US - wire	US - wire
BURNERS		
Burner Type	Semi-sealed	Semi-sealed
Burner Right Front	9,500 BTU	9,500 BTU
Burner Left Front	11,500 BTU	11,500 BTU
Burner Right Rear	9,500 BTU	9,500 BTU
Burner Left Rear	9,500 BTU	9,500 BTU
Burner Head	Aluminum	Aluminum
Ignition	Electronic	Electronic
Gas Valve Degree	270 deg	270 deg
LP Convertable	Yes-Spud	Yes-Spud
MAIN CHASSIS FEATURES		
Leveling legs-Plastic	4	4
Gas Hookup location	Under Cooktop R/Side	Under Cooktop R/Side
OVEN SPECIFICATIONS		
Ignition	Electronic	Electronic
Oven Control	EZ150	EZ150
Light	Yes	Yes
Manual Oven light switch	Backguard--Top Right	Backguard--Top Right
Auto Oven light switch	Yes	Yes
Removable Door	Yes	Yes
Oven Racks	Two straight	Two straight
No. Rack Guides	5	5
OVEN DOOR FEATURES		
Oven Door Type	Black Glass	White Glass
Handle Color	Black	White
BROILER FEATURES		
Broiler/Bake output	16,500 BTU	16,500 BTU
Drawer Handle - match drawer front color	Metal Bar	Metal Bar
ACCESSORIES		
Gas Shut off	No	No
OTHER SPECIFICATIONS		
CGA Approval	Yes	Yes
Use & Care Guide	French/English/Spanish	French/English/Spanish
Wiring Diagram Label	Yes	Yes
Installation Instruction	Yes	Yes
Anti-tip Device Approved	Floor/Wll Bracket	Floor/Wll Bracket
Anti-tip Shipped w/units	Floor Bracket	Floor Bracket
LP/Natural conversion kit	Shipped w/unit	Shipped w/unit

INSTALLATION HIGHLIGHTS

L.P. GAS CONVERSION

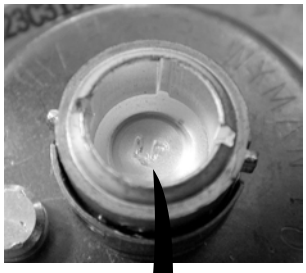
The range is manufactured for use with natural gas. To convert the range for use with L.P. gas, perform the following steps.

1. Turn off the gas and electrical supplies to the range.
2. Remove the broiler drawer from the range. To do this, open the drawer as far as it will go, lift the front to disengage the rollers, and pull it forward.
3. Raise the cooktop and prop it up (see page 3-2 for the procedure).

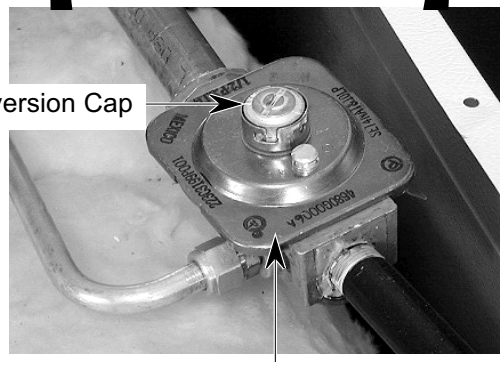
NOTE: The conversion cap has NAT stamped on one side (see the photo below on the left), and L.P. inside the hollow end on the other side (see the photo on the right).

4. **To convert the gas distribution valve:**
   a) Use a large screwdriver and turn the conversion cap on the gas distribution valve to disengage the pins from the slots.
   b) Remove the cap, turn it over so the L.P. side is facing up, and reinstall it on the valve.

NAT



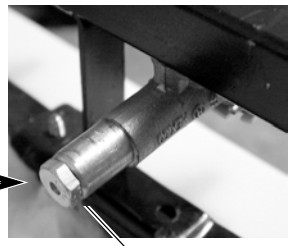
L.P.

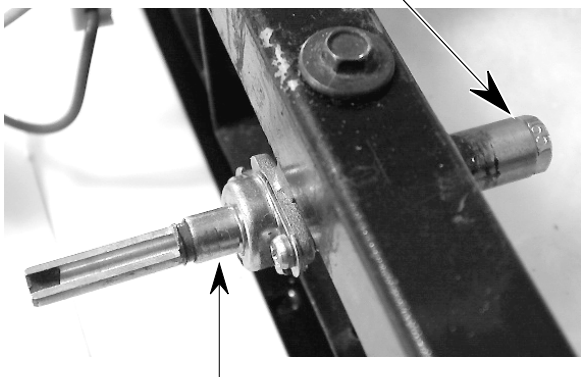


Gas Distribution Valve

NOTE: The L.P. orifices are supplied in a bag with the written material. When you remove the natural gas orifices, store them in the L.P. orifice bag in case you need them later on.

5. **To convert the gas valves:**
   a) Remove the burner venturi from the gas valves (see step 6 on page 3-4).
   b) Use a 3/8″ socket and remove the natural gas orifices from the gas valves.
   c) Install the L.P. gas orifices on the gas valves.



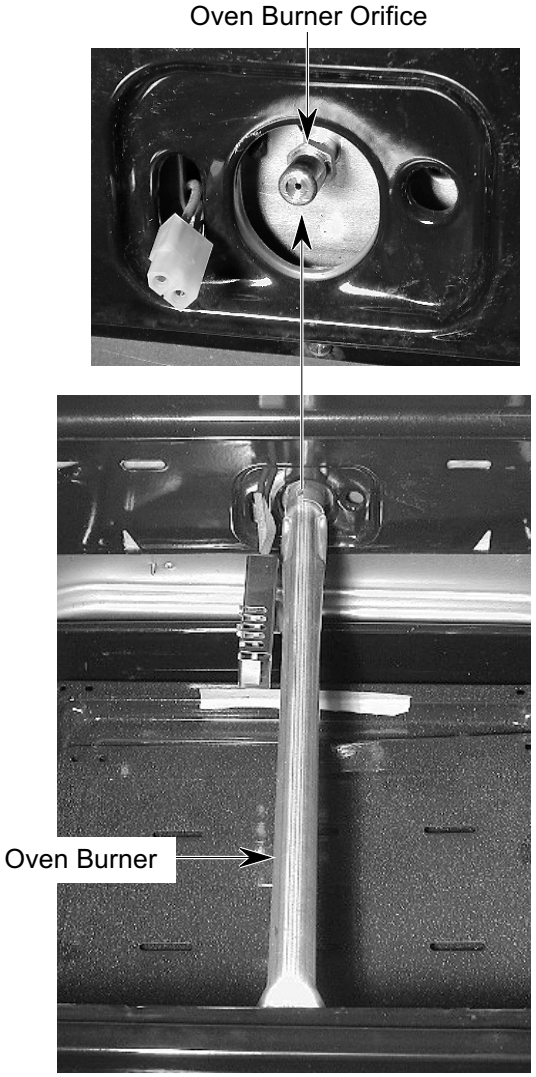


Gas Valve

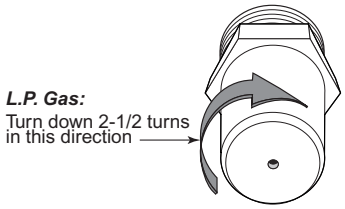
Continued on the next page.

6. **To convert the oven burner:**

a) Remove the oven burner from over the orifice (see pages 3-6 and 3-7 for the procedure).



b) Use a 1/2″ socket and turn the oven burner orifice hood clockwise until it is snug (approximately 2-1/2-turns). DO NOT OVERTIGHTEN THE ORIFICE. The burner flame cannot be properly adjusted if this conversion is not made.



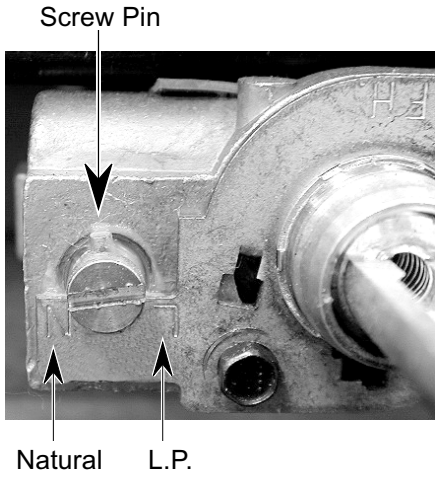
7. Reassemble the range.

FOR RANGES WITH PILOT LIGHT

1. To convert a range that uses a pilot light ignition system:

a) Remove the front panel.

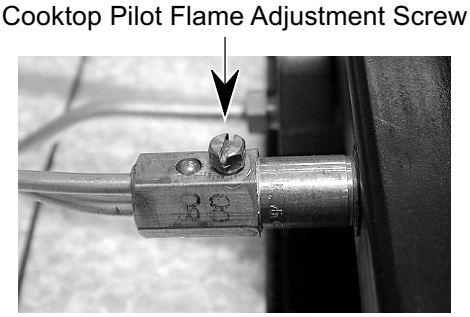
b) Turn the thermostat screw so that the pin is pointing at the “L” position.



2. If it is necessary to adjust the cooktop pilot flame:

a) Raise the cooktop.

b) Turn the cooktop pilot flame adjustment screw to obtain the best flame. The flame should have a solid blue cone with a lighter blue inner flame.

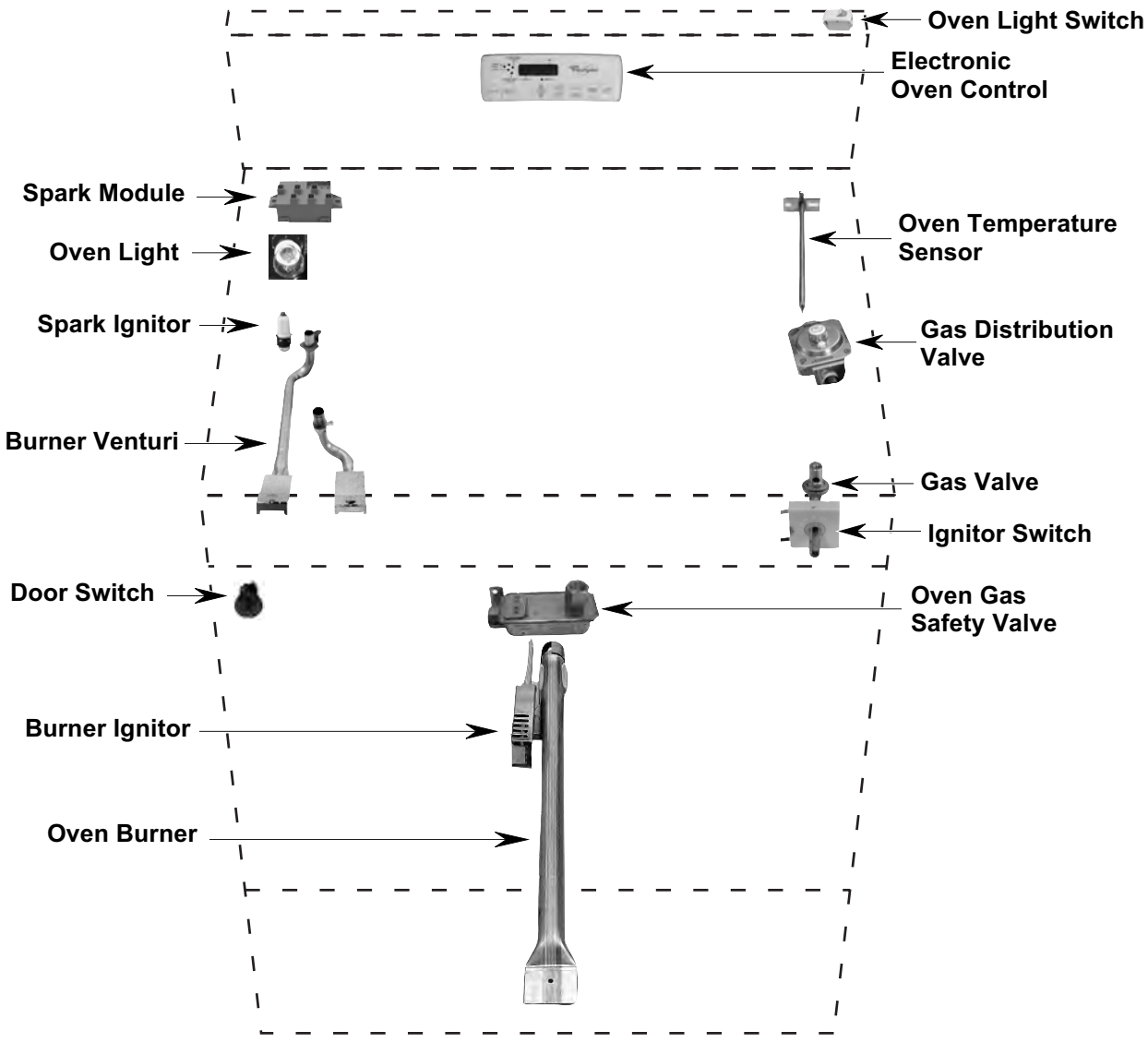


NOTE: There is no pilot adjustment for the oven burner. It is preset at the thermostat.

COMPONENT ACCESS

This section instructs you on how to service each component inside the range. The components and their locations are shown below.

COMPONENT LOCATIONS



RAISING THE COOKTOP

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

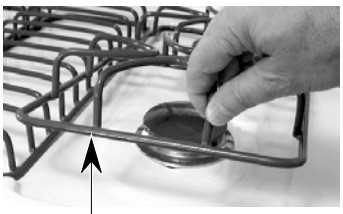
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

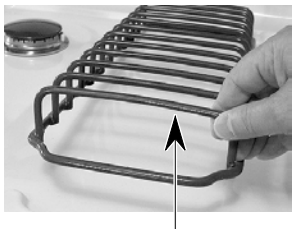
Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. Remove the grates and keep-warm rack from the cooktop.

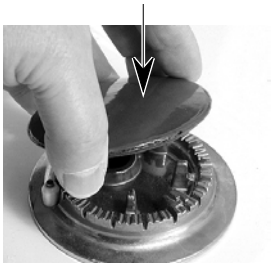


Grate

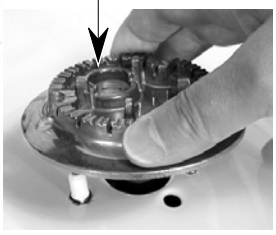


Keep-Warm Rack

3. Lift the four burner caps and burner bases off the burners and the spark ignitors.

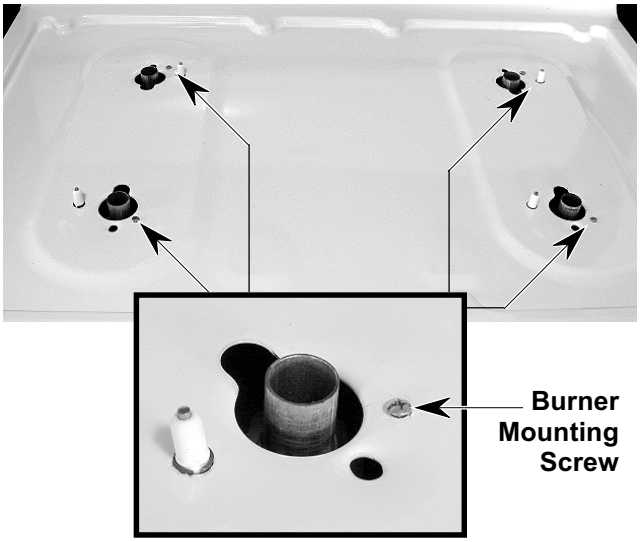


Burner Cap



Burner Base

4. Remove the mounting screw from each of the four burners.



Burner Mounting Screw

5. Lift the front of the cooktop and unsnap it from the two clips, then raise the cooktop and prop it up.

Clip

Clip

REMOVING A SPARK IGNITOR & SPARK MODULE

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

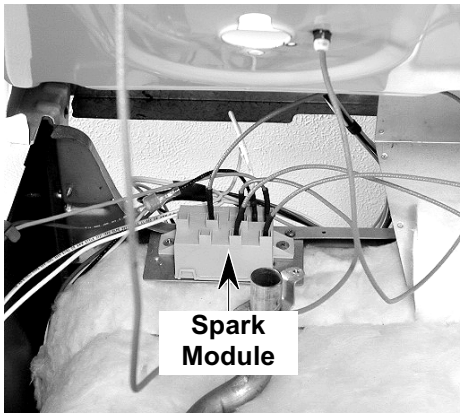
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

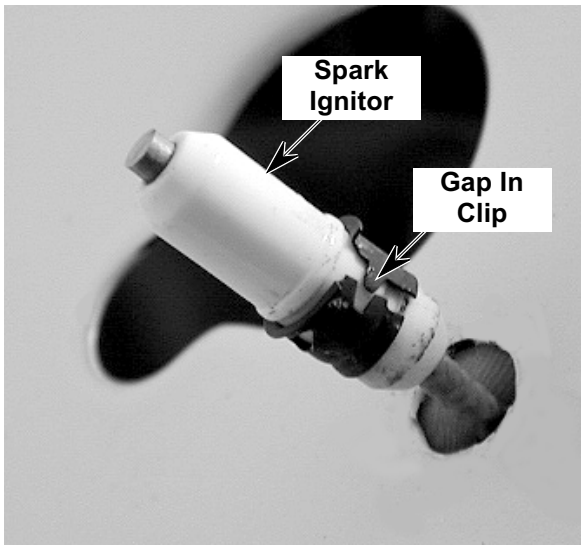
Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

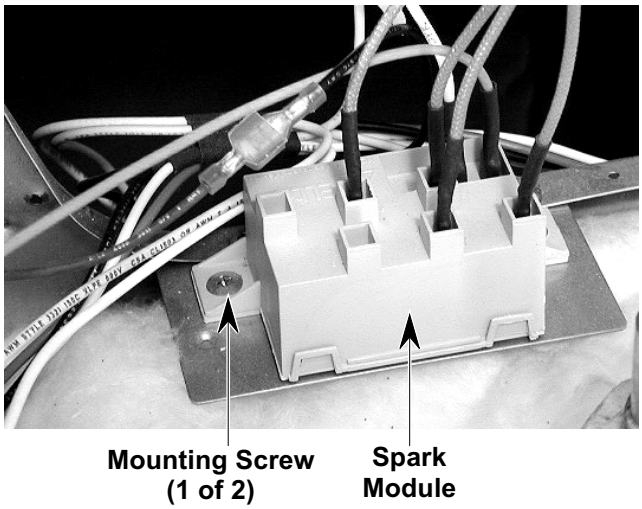
1. Turn off the gas and electrical power going to the range.
2. Raise the cooktop and prop it up (see page 3-2).
3. **To remove a spark ignitor:**
   a) Disconnect the ignitor wire from the spark module.



   b) Push the ignitor and clip out of the cooktop mounting hole. NOTE: You may have to squeeze the ignitor clip together at the gap to remove the ignitor from the mounting hole.



4. **To remove the spark module:**
   a) Disconnect the four ignitor and two power supply wires from the terminals.
   b) Remove the two mounting screws.



REMOVING A BURNER VENTURI, IGNITOR SWITCHES, GAS VALVE, & GAS DISTRIBUTION VALVE

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

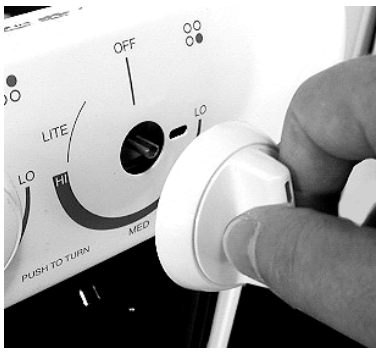
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. Raise the cooktop and prop it up (see page 3-2).
3. Remove the four front panel knobs.



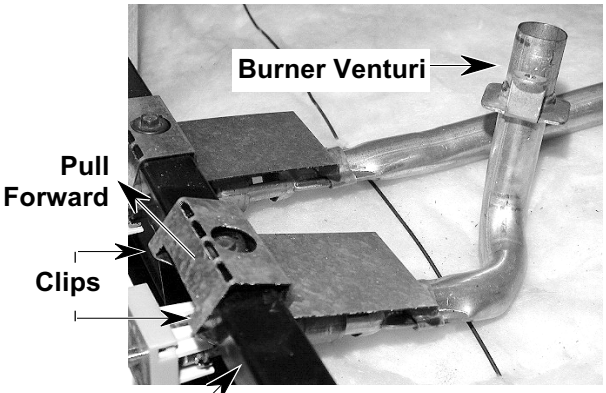
4. Open the oven door and remove the three mounting screws from the bottom of the front panel.

3 Front Panel Screws

5. Pull the bottom of the front panel forward and then pull down to unhook the two clips from the slots in the side panels. Remove the front panel and the three bottom spacers that are between the panel and chassis.

Front Panel Clip

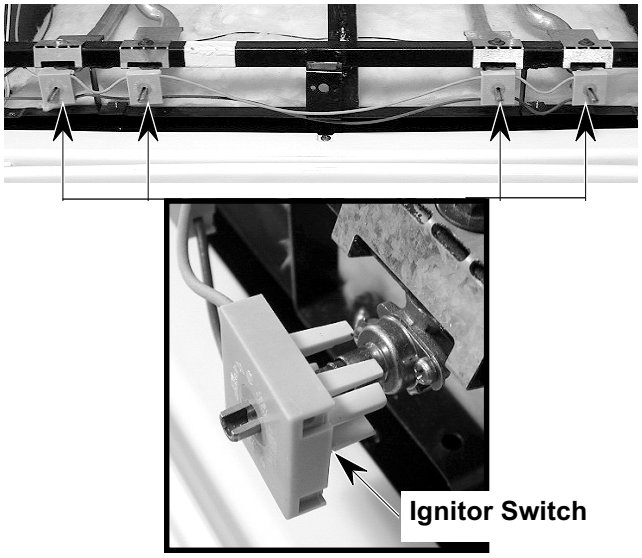
6. **To remove a burner venturi,** pull the bottom two clips forward until they are free of the gas manifold, then raise the burner venturi, and pull it off the outlet of the gas valve.



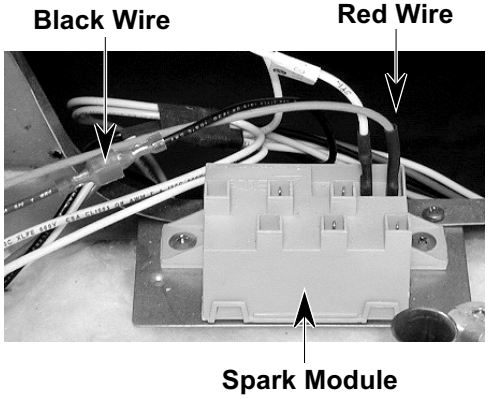
NOTE: The ignitor switches must be replaced as an assembly. They are not individually replaceable.

7. **To remove the ignitor switches:**

   a) Pull the switches off the gas valve stems.



   b) Disconnect the red wire from the spark module terminal and the black wire connector from the wiring harness.

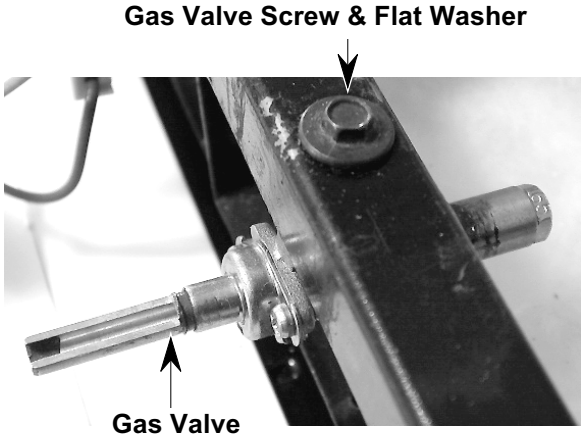


   c) Remove the two switch wires from the side panel clip.

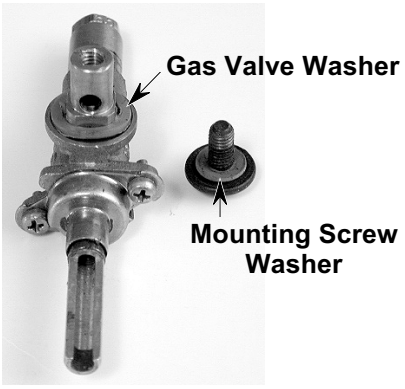
8. **To remove a gas valve:**

   a) Remove the burner venturi from the gas valve you are servicing (see step 6).

   b) Remove the screw and flat washer from the gas valve and remove the valve from the gas manifold.



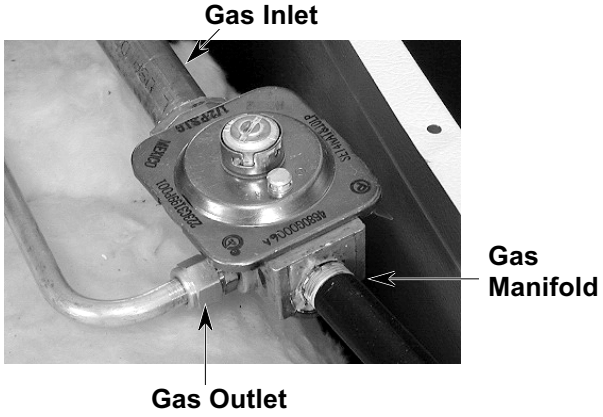
REASSEMBLY NOTE: Make sure that the rubber gas valve washer and the mounting screw washer are both in good condition. If they are ripped, cracked, or have a broken surface, replace them before reinstalling the gas valve on the manifold.



9. **To remove the gas distribution valve:**

   a) Remove the gas inlet and outlet lines.

   b) Unscrew the valve from the manifold.



REMOVING THE OVEN BURNER & BURNER IGNITOR

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

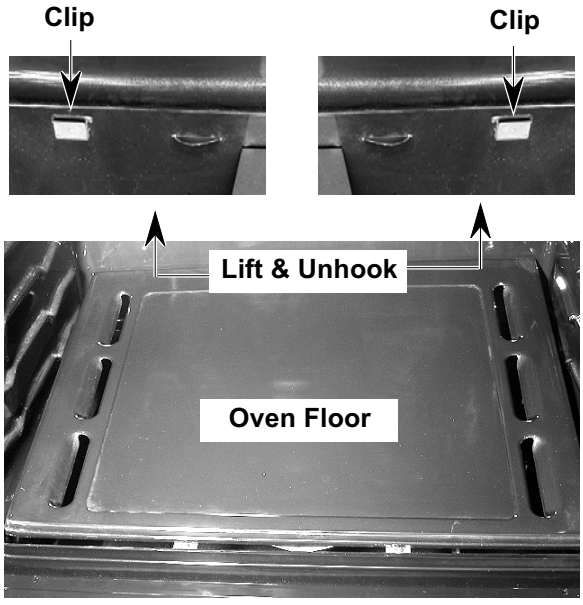
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

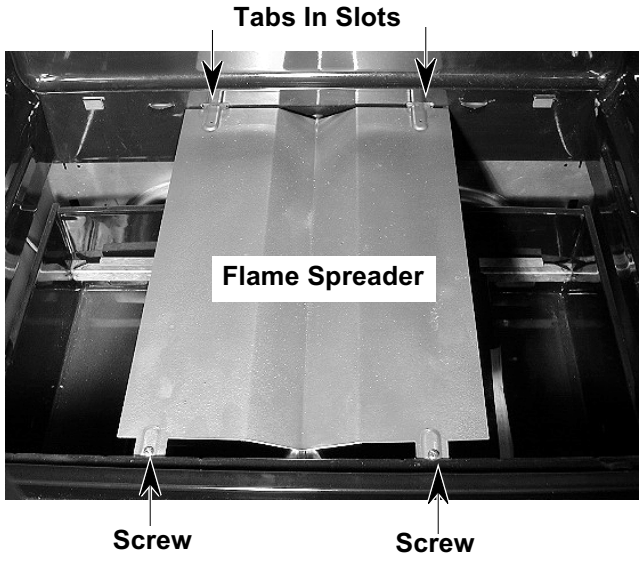
Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. Open the oven door and remove the racks.
3. Remove the oven floor by lifting the back and unhooking the flange from the two clips, then slide the floor back to unhook the front lip, and remove the floor.

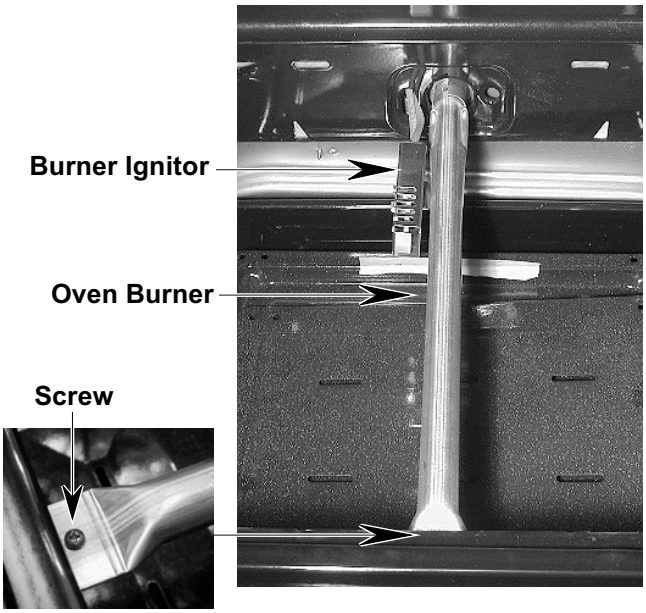


4. Remove the two screws from the front of the flame spreader. Pull the spreader forward, slide the tabs out of the slots in the back of the oven liner, and remove the spreader.

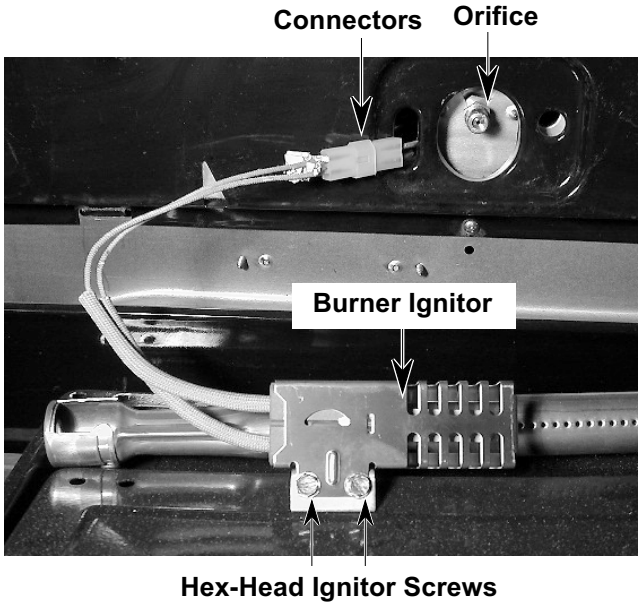


5. **To remove the oven burner:**

   a) Remove the front screw.



b) Pull the oven burner forward and slide it off the orifice at the back.



c) Pull the ignitor wiring out of the liner cutout until you can access the connector and disconnect it from the harness.

6. **To remove the burner ignitor,** remove the two hex-head screws.

REMOVING THE DOOR SWITCH & OVEN LIGHT SWITCH

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

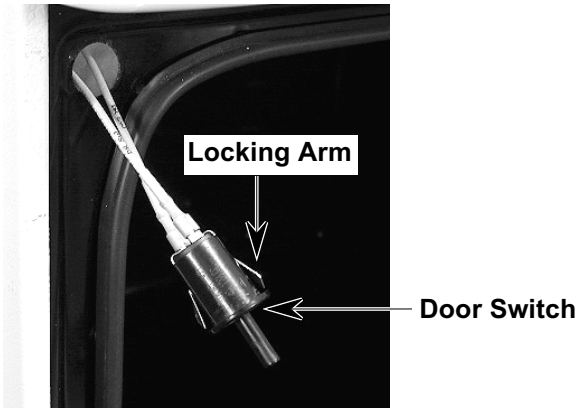
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

Failure to do so could result in explosion, fire, or other injury.

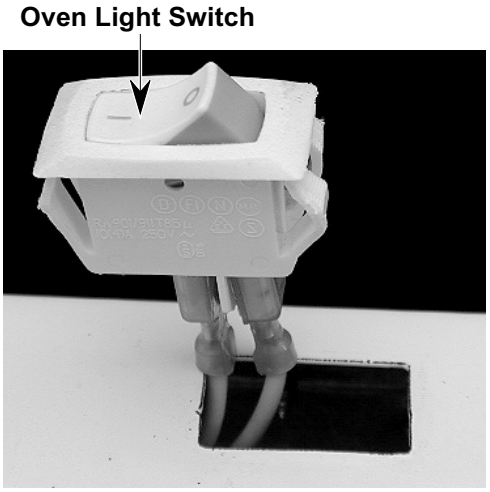
CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. **To remove the door switch:**
   a) Raise the cooktop and prop it up (see page 3-2).
   b) Open the oven door.
   c) Squeeze the locking arms on the door switch and push the switch out of the oven liner hole.



   d) Disconnect the wires from the door switch terminals.

3. **To remove the oven light switch:**
   a) Pry the oven light switch out of the control panel cutout. **CAUTION: Be careful not to chip the paint around the cutout.**



   b) Disconnect the wires from the switch terminals.

REMOVING THE ELECTRONIC OVEN CONTROL ASSEMBLY

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

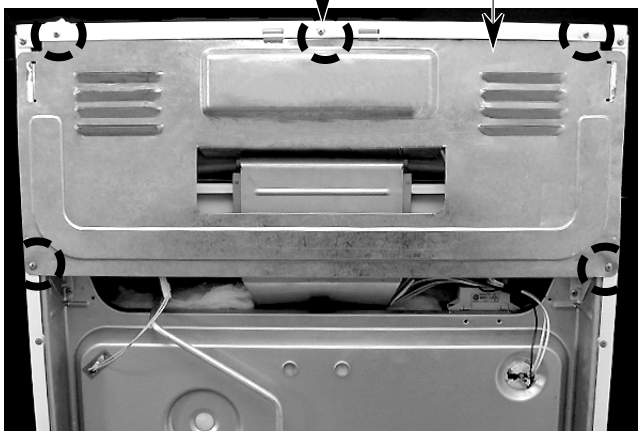
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

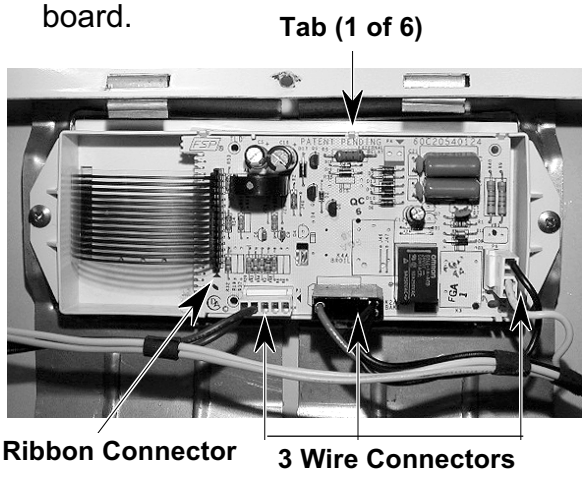
Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

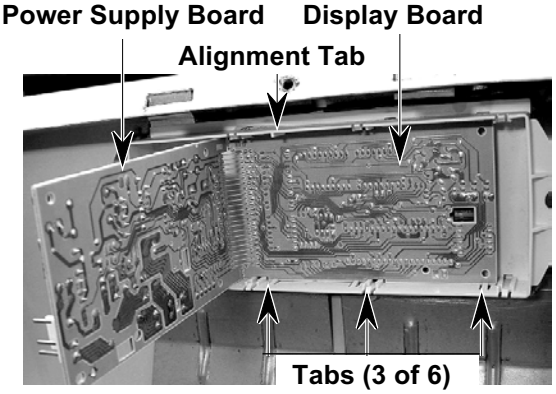
1. Turn off the gas and electrical power going to the range.
2. Pull the range away from the wall so that you can access the rear panel.
3. Remove the five screws from the rear cover. Pull the bottom of the cover out so the flange is free of the oven, and slide the cover down to remove it.



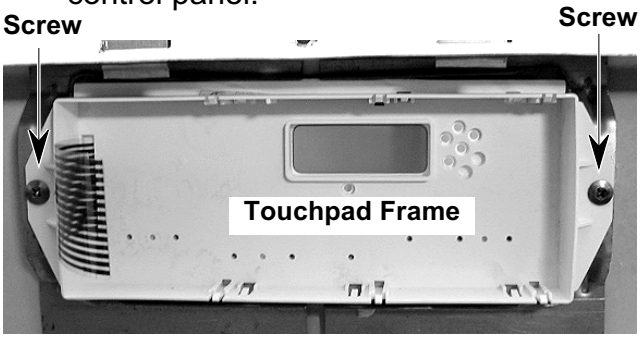
4. Disconnect the three wire connectors from the electronic oven control's power supply board and pull the ribbon cable out of its connector (do not touch the ribbon cable contacts). Unhook the tabs from the top and bottom edges of the power supply board.



5. Fold the power supply board back out of the way and unhook the tabs from the top and bottom of the display board. Note the board alignment tab for reassembly.



6. To remove the touchpad assembly, remove the two screws from the touchpad frame and remove the assembly from the control panel.



REMOVING THE OVEN LIGHT SOCKET

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

Shut off gas supply line valve before servicing the range.

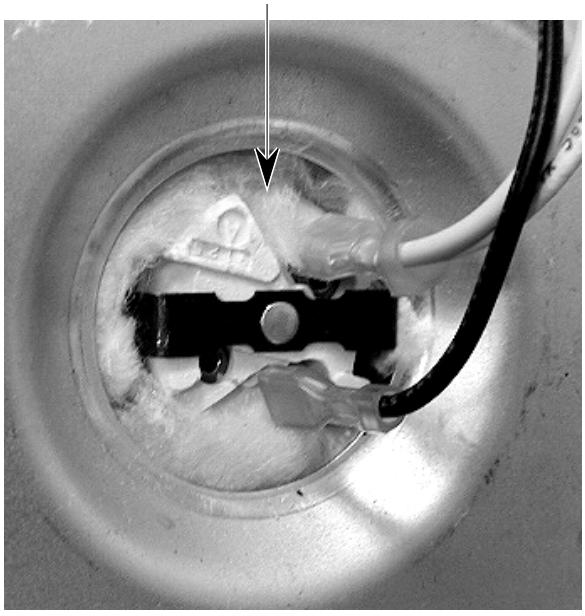
Check all gas line connections and replace all panels before operating the range.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. Open the oven door and remove the oven racks.
3. Remove the oven light bulb from the socket.
4. Pull the left side of the range away from the wall far enough to access the oven light socket.
5. Push the oven light socket out of the liner cutout.
6. Disconnect the two wires from the oven light socket terminals.

Oven Light Socket



REMOVING THE OVEN TEMPERATURE SENSOR

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

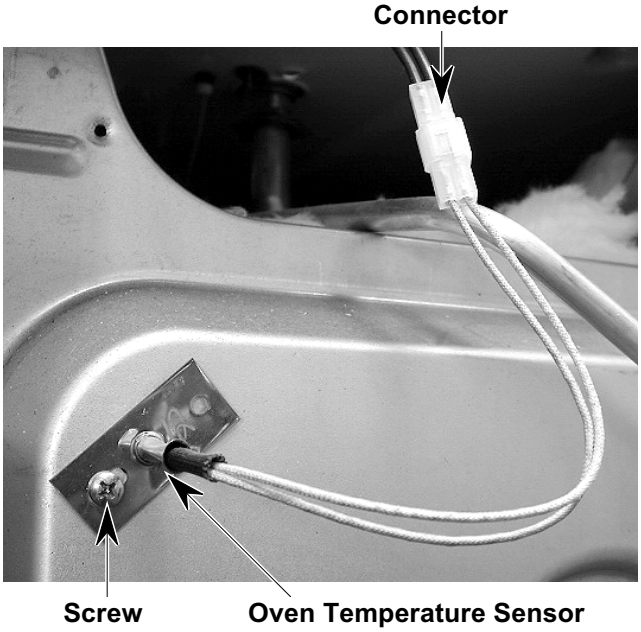
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. Pull the right side of the range away from the wall far enough to access the oven temperature sensor.
3. Disconnect the oven temperature sensor connector from the wiring harness.



4. Remove the screw from the oven temperature sensor and remove the sensor from the back of the range.

REMOVING THE OVEN GAS SAFETY VALVE

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

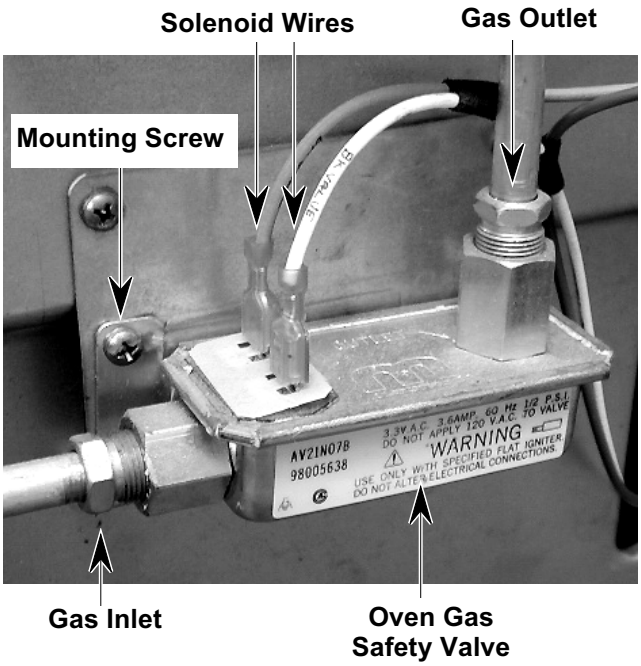
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

1. Turn off the gas and electrical power going to the range.
2. Pull the range away from the wall so that you can access the oven gas safety valve.
3. Disconnect the two solenoid wires from the terminals of the oven gas safety valve.



4. Remove the bracket mounting screw from the oven gas safety valve.
5. Disconnect the gas inlet and outlet lines from the oven gas safety valve.

REMOVING A SIDE PANEL

⚠WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the range.

Replace all panels before operating range.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

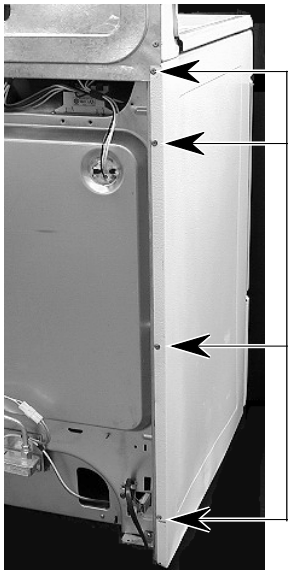
Shut off gas supply line valve before servicing the range.

Check all gas line connections and replace all panels before operating the range.

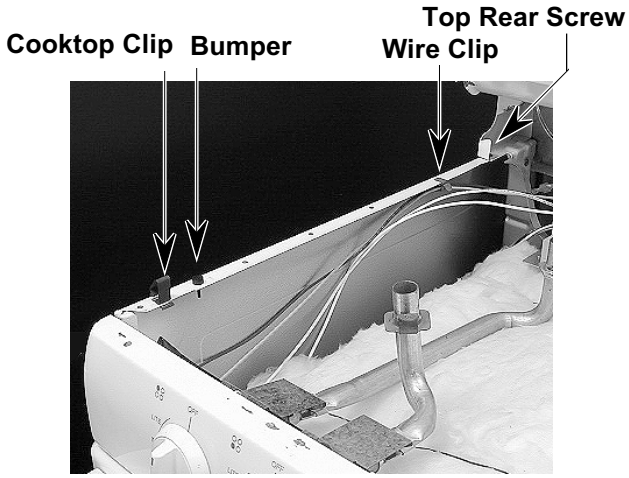
Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

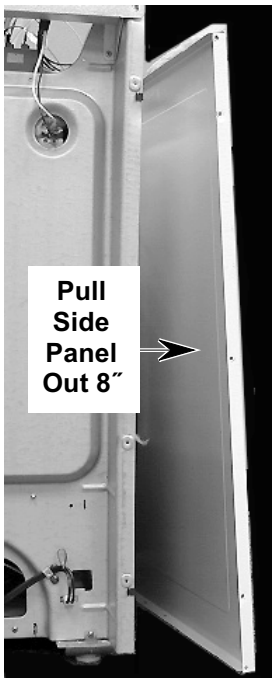
1. Turn off the gas and electrical power going to the range.
2. Remove the oven door (see page 3-14).
3. Pull the range away from the wall so that you can access the back of the oven.
4. Remove the four screws from the rear flange of the side panel you are removing.



5. Raise the cooktop (see page 3-2).
6. Remove the top rear side panel screw.



7. Remove the wire clip, the rubber bumper, and the cooktop clip from the top flange of the side panel (see above).
8. Remove the broiler drawer.
9. Pull the rear of the side panel away from the range (see the left photo below).



10. Remove the three screws from the front of the side panel (see the right photo above). Pull the panel forward, unhook the three front tabs, and remove the panel from the range.

REMOVING THE OVEN DOOR

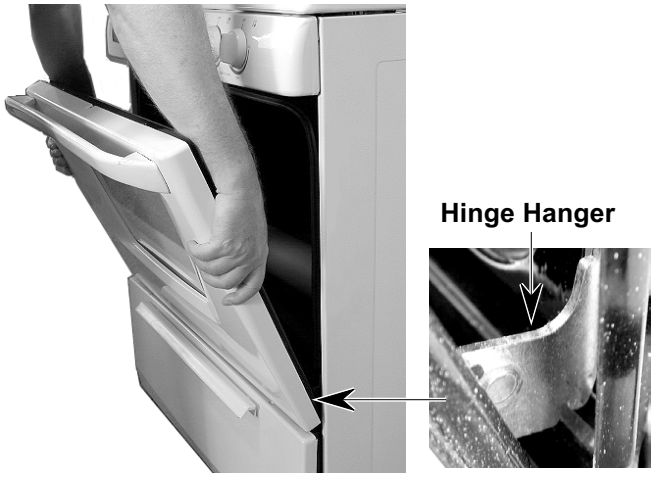
CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

CAUTION: Do not lift the oven door by its handle.

To remove the oven door:

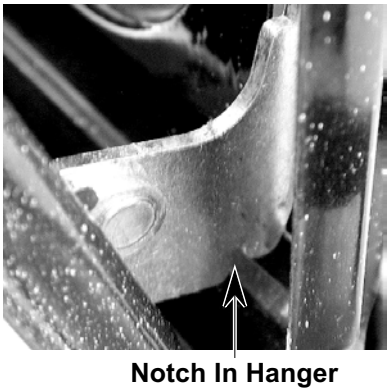
1. Open the oven door to its fully open position.
2. Insert a pin or a small nail into the hole in each of the oven door hinge hangers.

3. Close the oven door as far as the hinge pins will allow.
4. Grasp the sides of the door and lift it until it stops, then pull the hinge hangers out of the slots.



To reinstall the oven door:

1. Grasp the sides of the door and tilt it back at a slight angle, then insert the hinge hangers into the hinge slots as far as they will go.
2. Rotate the top of the door towards the range so the notch in the hinge hangers fits onto the support rails inside the range slots.



3. Close the oven door as far as the pins will allow and make sure that the hangers are fully seated on the support rails. If they are not seated properly, the door will not close tightly, and may be off-center. To seat the hinge hangers, open the door slightly, and push in on the bottom until the notch seats in the rail.
4. Open the oven door and remove the two hinge hanger pins (nails).
5. Close the oven door completely and check it for proper operation and alignment.

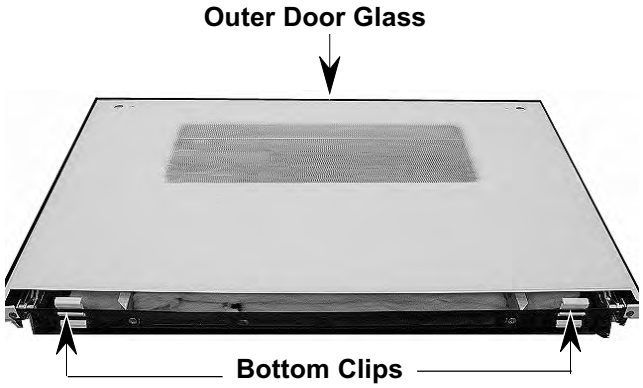
REMOVING THE OVEN DOOR HANDLE, OUTER GLASS, & INNER GLASS

CAUTION: When you work on the gas range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

CAUTION: It is not necessary to remove the oven door when removing the handle or outer glass. However, be careful not to allow the outer glass to fall out of the door when you remove the handle.

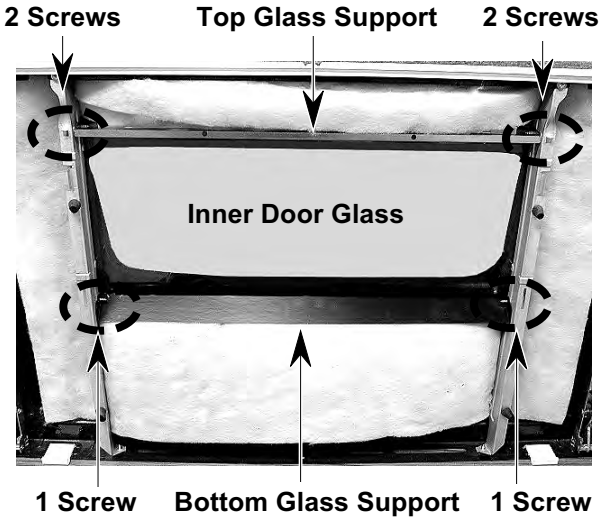
1. **To remove the oven door handle and outer glass:**
   a) Open the oven door approximately 1/3 of the way.
   b) Hold the outer glass and handle in place with one hand, and remove the two door handle screws with the other.

   c) Hold the outer glass in place and remove the door handle, then lift the outer glass out of the bottom clips, and remove it.



CAUTION: Do not lift the oven door by its handle.

2. **To remove the oven door inner glass:**
   a) Remove the door from the oven (see page 3-14).
   b) Remove the handle and outer glass from the door (see step 1). Position the door with the outer glass side facing up.
   c) Remove the 4 screws (2 on each side) from the top glass support.
   d) Remove the 2 screws (1 on each side) from the bottom glass support.



   e) Unclip the left and right vertical rails from the top of the door, then remove the rails at the bottom. Remove the inner door glass and the two supports from the door.

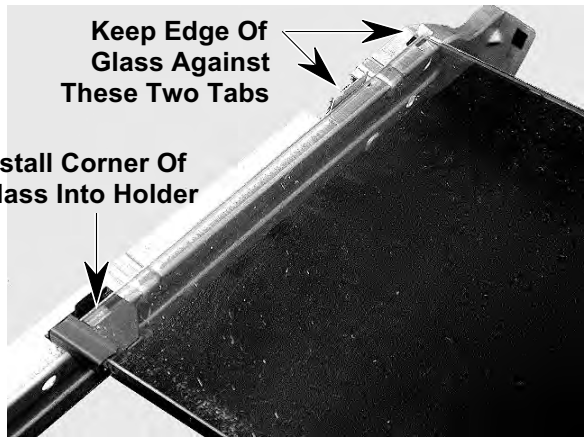
Continued on the next page.

REASSEMBLY NOTES:

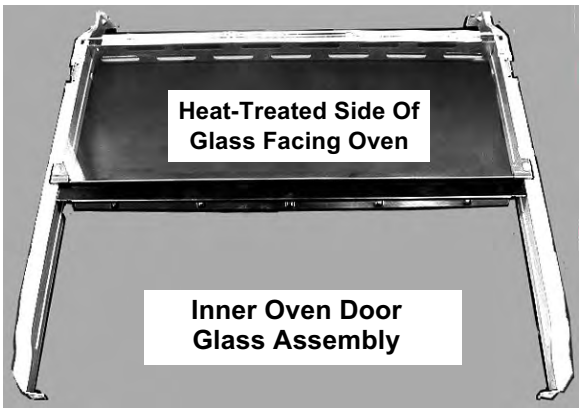
1. When you install the inner door glass, position the glass with the heat-treated side facing the oven.

   The heat-treated side is marked with an "HS" near the edge of the glass. The heat-treated side is also conductive and can be checked with an ohmmeter by touching the meter probes against the surface of the glass. If the meter indicates continuity, you are on the heat-treated side. If no continuity is measured, you are on the untreated side.

2. When you install the inner door glass, position the edges of the glass on both sides inside the corner holders and against the tabs, as shown.



3. Assemble the vertical rails and the top and bottom glass supports with the heat-treated inner glass <u>outside</u> the oven door, as shown.



IMPORTANT: Make sure that none of the insulation shows through the inner door glass before you clip the assembly into place.

4. Carefully place the inner door glass assembly inside the door and insert the <u>bottom</u> tabs on the vertical rails into the door slots, then clip the <u>top</u> tabs into their slots.

COMPONENT TESTING

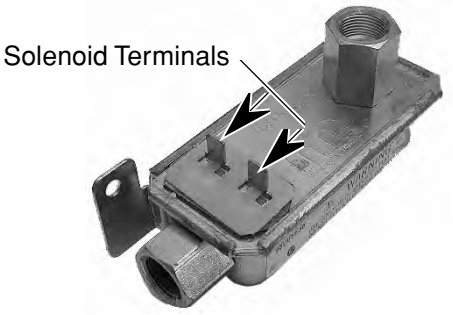
⚠WARNING

Electrical Shock Hazard

Disconnect the electrical supply from the unit before servicing.

Failure to do so could result in death or electrical shock.

GAS SAFETY VALVE



Refer to page 3-12 to access the gas safety valve. To test the valve, perform the following steps.

1. Turn off the electrical power to the range.
2. Disconnect a wire from one of the solenoid terminals.
3. Set the ohmmeter to the R x 1 scale.
4. Touch the test leads to the solenoid terminals on the gas safety valve. The meter should indicate less than 1 Ω.

⚠WARNING

Electrical Shock Hazard

Disconnect the electrical supply from the unit before servicing.

Failure to do so could result in death or electrical shock.

DOOR SWITCH

Refer to page 3-8 to access the door switch. To test the switch, perform the following steps.

1. Turn off the electrical power to the range.
2. Disconnect one of the wires from the door switch terminals.
3. Set the ohmmeter to the R x 1 scale.
4. Touch the test leads to the door switch terminals.
   - With the door closed, the meter should indicate an open circuit (infinite).
   - With the door open, the meter should indicate a closed circuit (0 Ω).

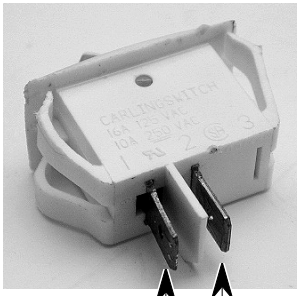
⚠WARNING

Electrical Shock Hazard

Disconnect the electrical supply from the unit before servicing.

Failure to do so could result in death or electrical shock.

OVEN LIGHT SWITCH



Refer to page 3-8 to access the oven light switch. To test the switch, perform the following steps.

1. Turn off the electrical power to the range.
2. Disconnect one of the wires from the switch terminals.
3. Set the ohmmeter to the R x 1 scale.
4. Touch the test leads to the oven light switch terminals. The meter should indicate the readings indicated with the switch set as follows:
   - Rocker set at “0” = an open circuit (infinite).
   - Rocker set at “–” = a closed circuit (0 Ω).

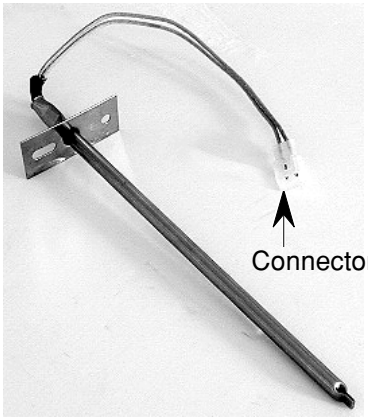
⚠WARNING

Electrical Shock Hazard

Disconnect the electrical supply from the unit before servicing.

Failure to do so could result in death or electrical shock.

OVEN TEMPERATURE SENSOR



Refer to page 3-11 to access the oven temperature sensor. To test the sensor, perform the following steps.

1. Turn off the electrical power to the range.
2. Disconnect the connector from the wiring harness.
3. Set the ohmmeter to the R x 1K scale.
4. Touch the test leads to the pins in the connector. At an ambient temperature of 75˚F, the meter should indicate 1090 Ω.

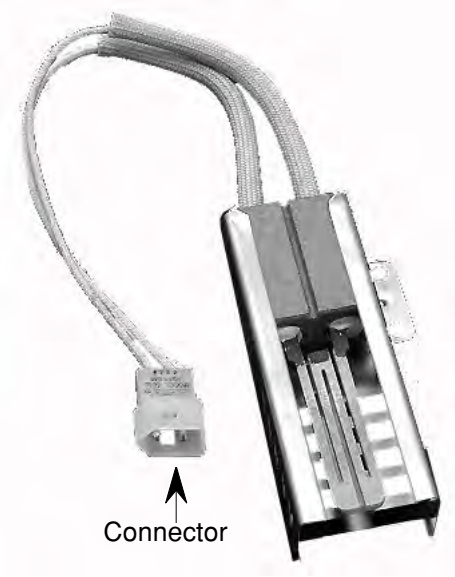
⚠WARNING

Electrical Shock Hazard

Disconnect the electrical supply from the unit before servicing.

Failure to do so could result in death or electrical shock.

OVEN BURNER IGNITOR



Refer to page 3-6 to access the oven burner ignitor. To test the ignitor, perform the following steps.

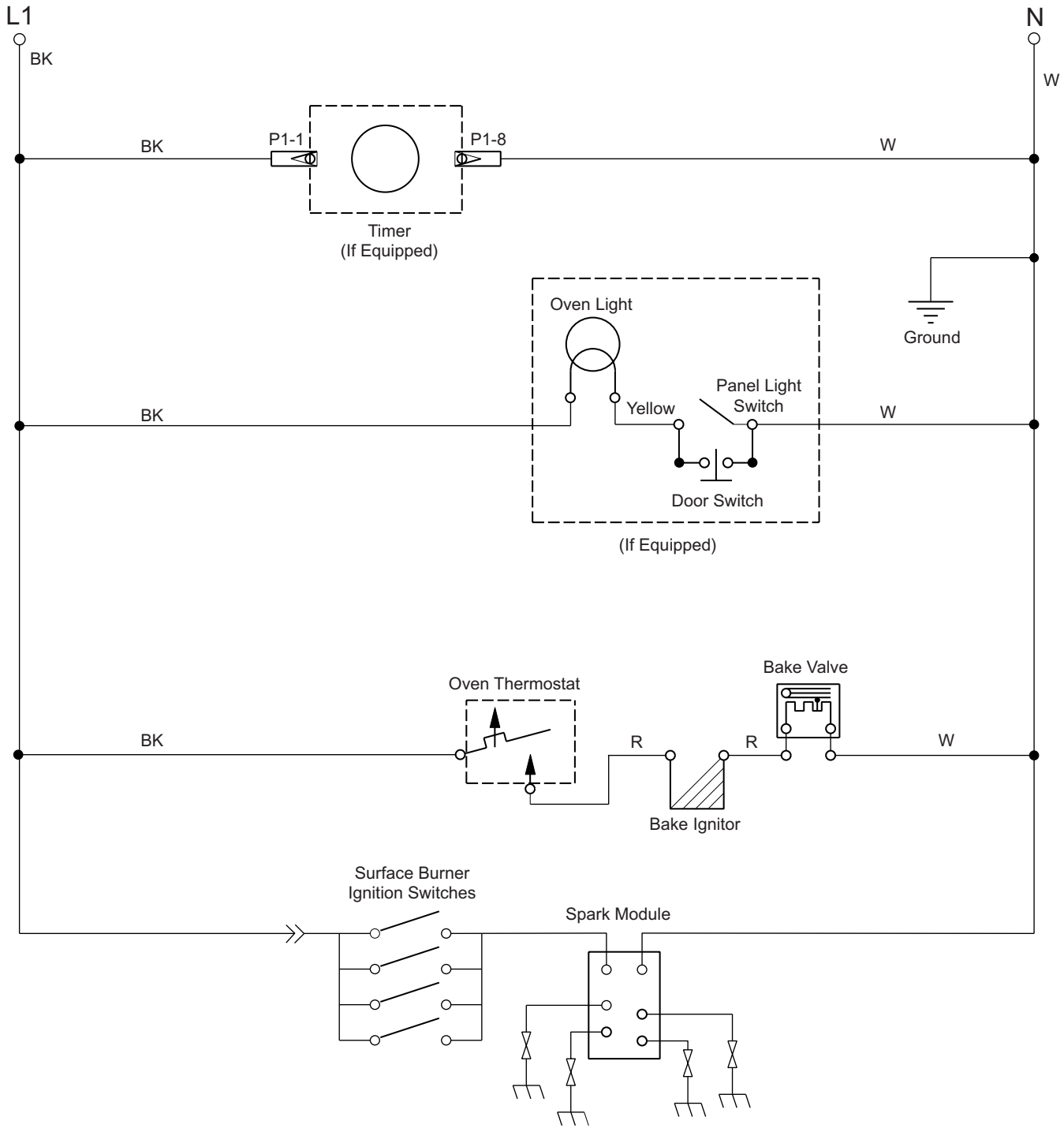
1. Turn off the electrical power to the range.
2. Disconnect the connector from the wiring harness.
3. Set the ohmmeter to the R x 1 scale.
4. Touch the test leads to the connector pins. At ambient temperature, the meter should indicate less than 1 Ω.

— NOTES —

WIRING DIAGRAMS

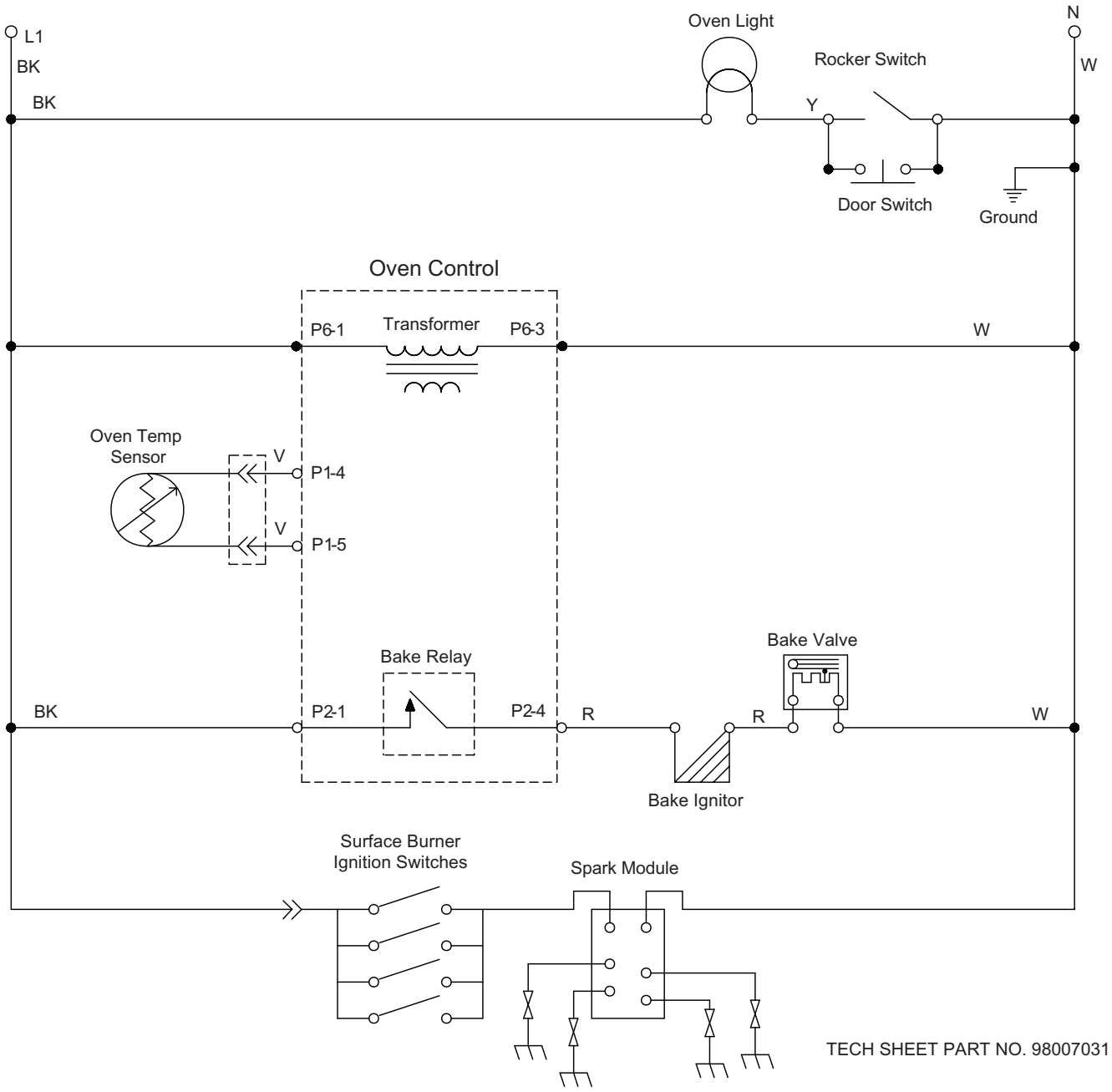
WIRING DIAGRAM

Models: SF302OEJ, SF303PEJ, SF310PEJ, FGP305J, FGP325J, FGP337J



WIRING DIAGRAM

Models: SF315PEJ & SF325LEJ



TECH SHEET PART NO. 98007031

TECH TIPS

REQUESTING ASSISTANCE OR SERVICE

To avoid unnecessary service calls, please check the "Troubleshooting" section of your Use and Care Guide. It may save you the cost of a service call. If you still need help, follow the instructions below.

1. **If the problem is not due to one of the items listed in the "Troubleshooting" section of your Use and Care Guide*:**

   Call the Whirlpool or Inglis Limited Consumer Assistance Center telephone number. Dial toll-free from anywhere:

   In the U.S.A. — Call 1-800-253-1301

   In Canada — Call 1-800-461-5681

   8:30 a.m. - 6:00 p.m. (EST)

   One of our trained consultants can instruct you in how to obtain satisfactory operation from your appliance or, if service is necessary, recommend a qualified service company in your area.

   If you prefer, write to:

   In the U.S.A. — Whirlpool Brand Home Appliances Consumer Assistance Center
   c/o Correspondence Department
   2000 North M-63
   Benton Harbor, MI 49022-2692

   In Canada — Consumer Relations Department
   Inglis Limited
   1901 Minnesota Court
   Mississauga, Ontario L5N 3A7

Please include a daytime phone number in your correspondence.

2a. **If you need service in the U.S.A.*:**

Whirlpool has a nationwide network of designated Whirlpool service companies. Whirlpool designated service technicians are trained to fulfill the product warranty and provide after-warranty service, anywhere in the United States. To locate the designated Whirlpool service company in your area, call our Consumer Assistance Center telephone number (see Step 1) or look in your telephone directory Yellow Pages under:

- APPLIANCE-HOUSEHOLD MAJOR, SERVICE & REPAIR (See Whirlpool Appliances or Authorized Whirlpool Service—Example: *XYZ Service Co.*)
- WASHING MACHINES & DRYERS, SERVICE & REPAIR (See Whirlpool Appliances or Authorized Whirlpool Service—Example: *XYZ Service Co.*)

2b. **If you need service in Canada*:**

Contact "Inglis Limited Appliance Service" from anywhere in Canada at — **1-800-807-6777**.

3. **If you need FSP® replacement parts:**

   FSP® is a registered trademark of Whirlpool Corporation for quality parts. Look for this symbol of quality whenever you need a replacement part for your whirlpool appliance. FSP replacement parts will fit right and work right because they are made to the same exacting specifications used to build every new Whirlpool appliance.

   To locate FSP replacement parts in your area, refer to Step 2 or call the Consumer Assistance Center number (see Step 1).

* When asking for help or service: Please provide a detailed description of the problem, your appliance's complete model and serial numbers, and the purchase date. (See the "A Note to You" section of your Use and Care Guide.) This information will help us respond properly to your request.

WHIRLPOOL GAS RANGE WARRANTY

LENGTH OF WARRANTY:	WHIRLPOOL WILL PAY FOR:	WHIRLPOOL WILL NOT PAY FOR:
ONE-YEAR FULL WARRANTY FROM DATE OF PURCHASE.	FSP® replacement parts and repair labor costs to correct defects in materials or workmanship. Service must be provided by an authorized Whirlpool service company.	A. Service calls to: 1. Correct the installation of the range. 2. Instruct you how to use the range. 3. Replace house fuses or correct house wiring. 4. Replace owner-accessible light bulbs. 5. Correct house plumbing. B. Repairs when the range is used in other than normal, single-family household use. C. Pickup and delivery. The range is designed to be repaired in the home. D. Damage to the range caused by accident, alteration, misuse, abuse, fire, flood, acts of God, or use of products not approved by Whirlpool. E. Repairs to parts or systems resulting from unauthorized modifications made to the appliance. F. In Canada, travel or transportation expenses for customers who reside in remote areas. G. Replacement parts or repair labor costs for units operated outside the United States and Canada.

WHIRLPOOL CORPORATION AND INGLIS LIMITED SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation may not apply to you. This warranty gives specific legal rights and you may also have other rights which vary from state to state or province to province.

Outside the United States and Canada, a different warranty may apply. For details, please contact your authorized Whirlpool dealer.

If you need service, refer to the “Requesting Assistance or Service” section on the previous page. After checking “Requesting Assistance or Service,” additional help can be found by calling the Whirlpool Consumer Assistance Center telephone number, **1-800-253-1301**, from anywhere in the U.S.A. In Canada, contact your authorized Inglis Limited Appliance Service company, **1-800-807-6777**.

— NOTES —

— NOTES —

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